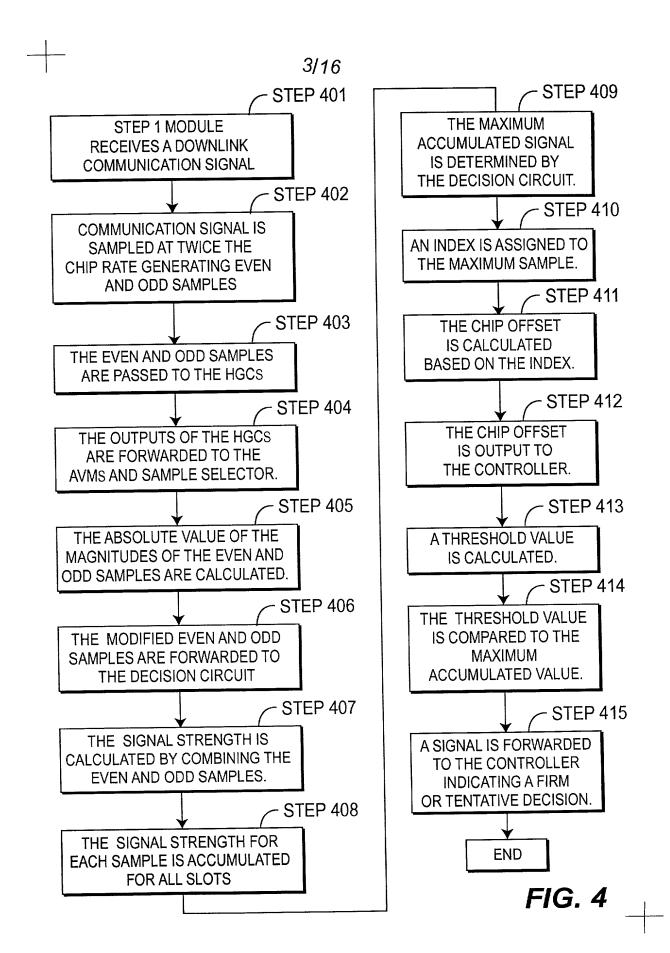


FIG. 1



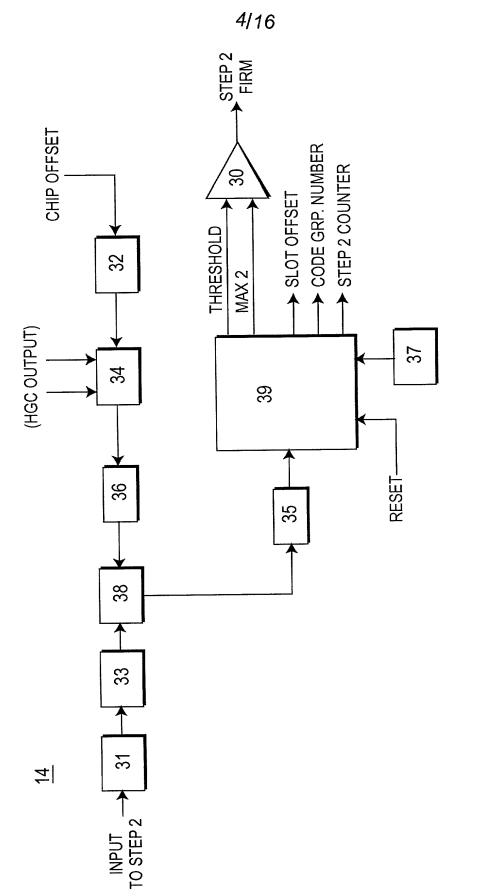


FIG. 5

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#### 6/16

$$INPUT MATRIX = \begin{bmatrix} x_{1,1} & x_{1,2} & \cdot & \cdot & x_{1,16} \\ x_{2,1} & x_{2,2} & \cdot & \cdot & x_{2,16} \\ \cdot & \cdot & x_{i,j} & \cdot & \cdot \\ \cdot & \cdot & \cdot & \cdot & \cdot \\ x_{15,1} & x_{15,2} & \cdot & \cdot & x_{15,16} \end{bmatrix}_{15 \times 16}$$

i = 1,2,3,.....15 SLOTS j = 1,2,3,.....16 ELEMENTS PER SLOT FROM HGC OUTPUT

## FIG. 7

i = 1,2,3,.....64 GROUPS j = 1,2,3,.....15 SLOTS

 $x_{i,j} = \text{S-SCH CODES}$ . ONE OUT OF 16 PER SLOT.

# FIG. 8

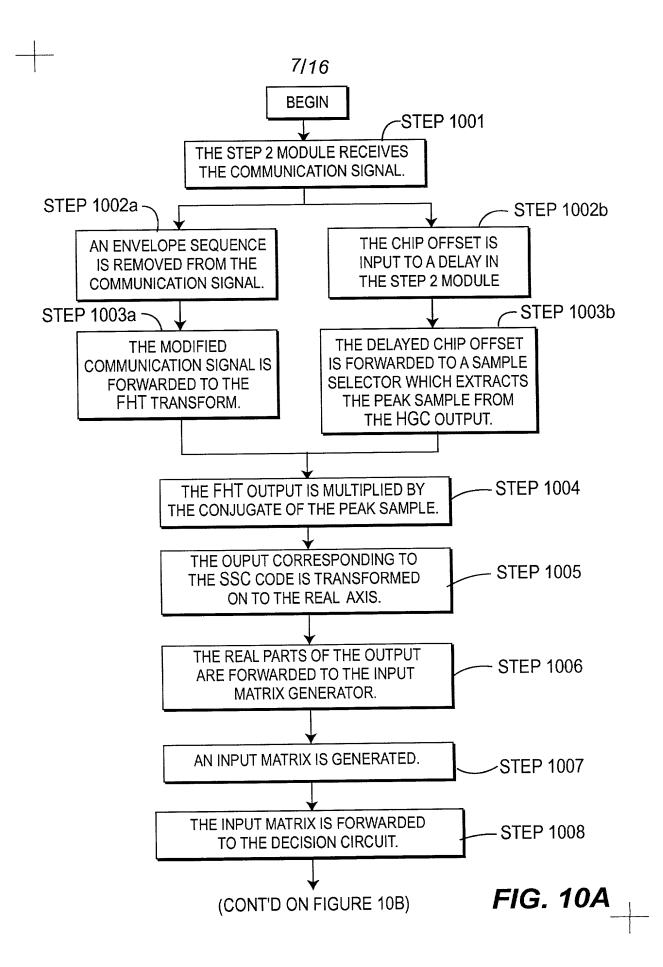
$$\text{CORRELATION MATRIX} = \begin{bmatrix} c_{0,0} & c_{0,1} & \cdot & \cdot & c_{0,14} \\ c_{1,0} & c_{1,1} & \cdot & \cdot & c_{1,14} \\ \cdot & \cdot & c_{i,j} & \cdot & \cdot \\ c_{63,0} & c_{63,1} & \cdot & \cdot & c_{63,14} \end{bmatrix}_{64 \times 15} \text{PER FRAME}$$

 $c_{i,j} = \sum_{k} INPUT MATRIX [k][CODE GROUP MATRIX[i][k]]$ 

i = 0,1,2,....63 GROUPS

j = 0,1,2,.....14 CYCLIC SHIFTS RESPECT TO COLUMNS (SLOT OFFSETS). k = 0,1,2,.....14 SLOTS PER FRAME.

### FIG. 9



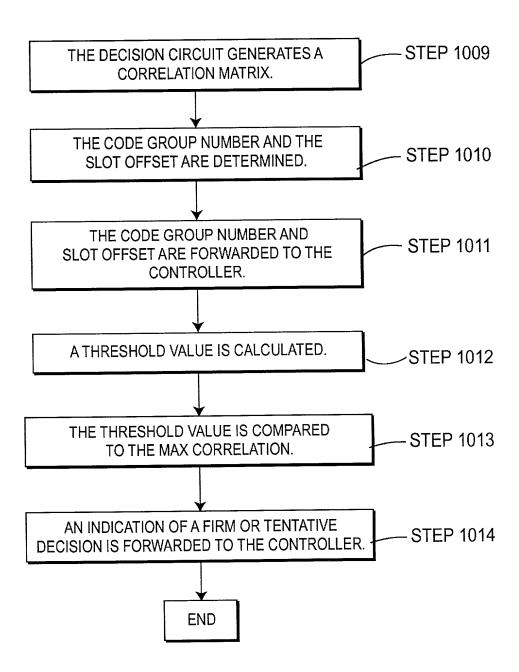


FIG. 10B

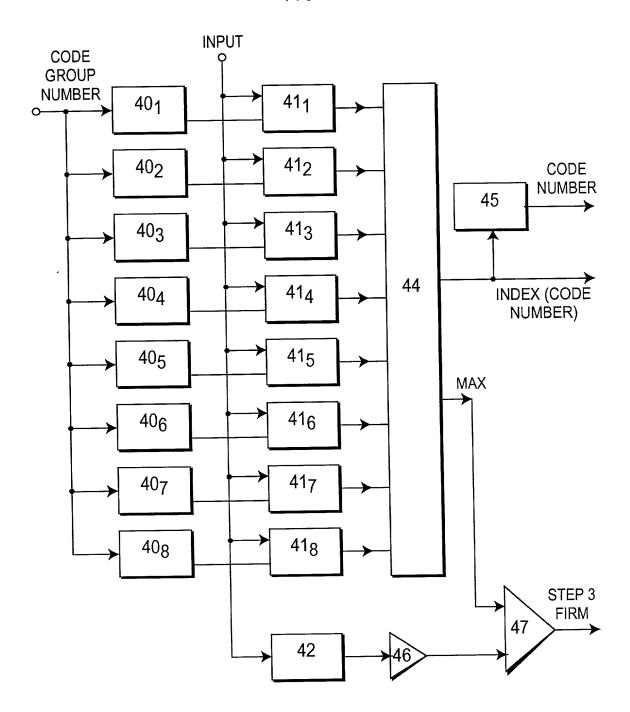


FIG. 11

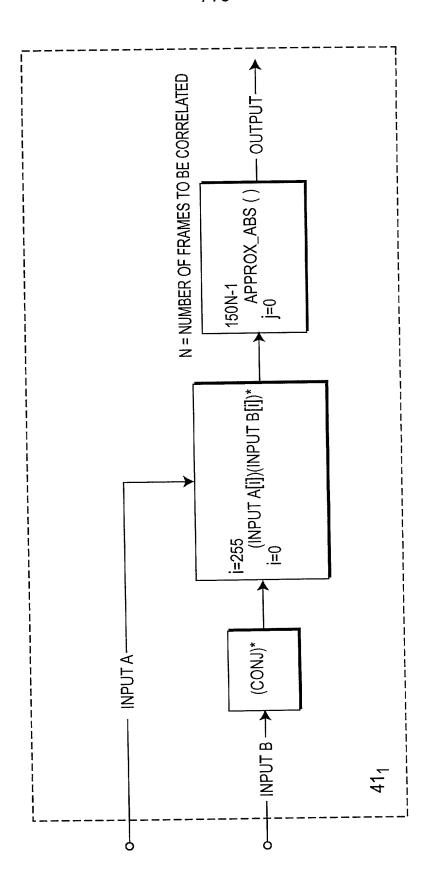


FIG. 12

#### 11/16

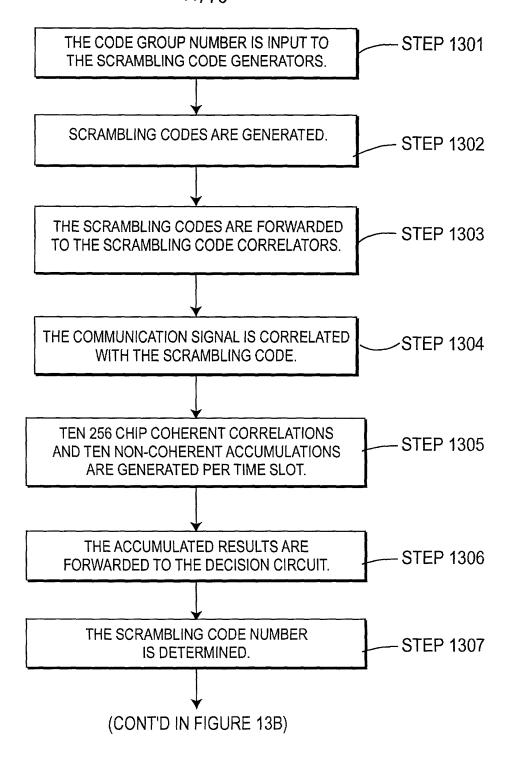


FIG. 13A

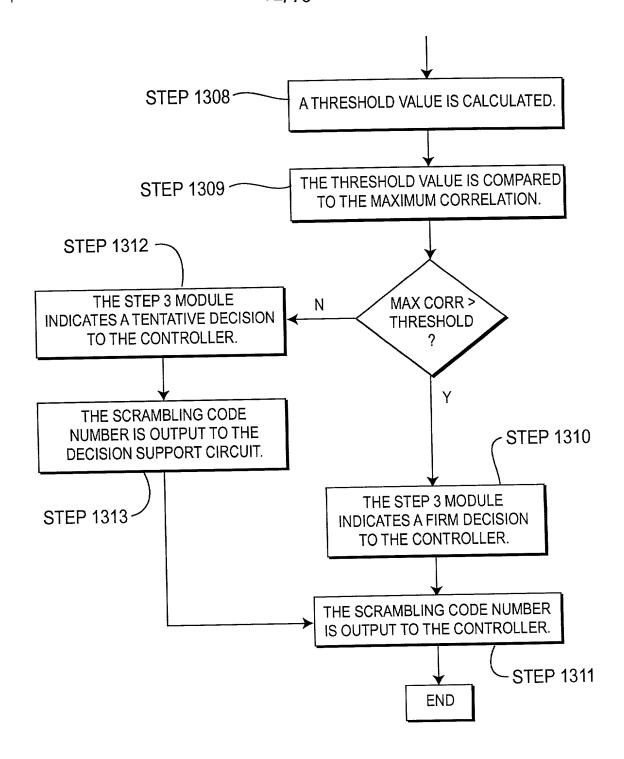
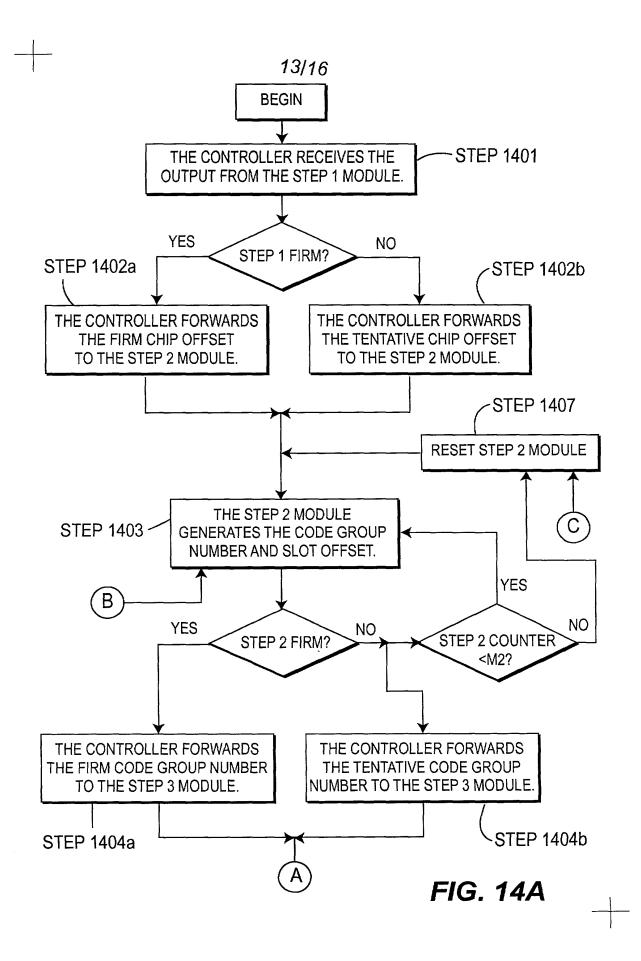


FIG. 13B



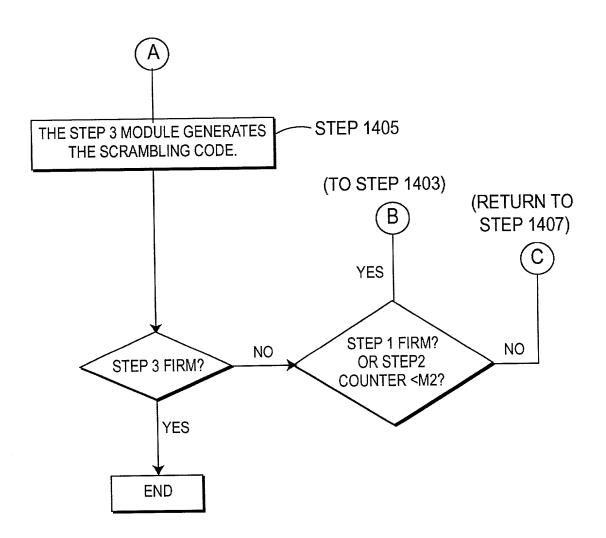
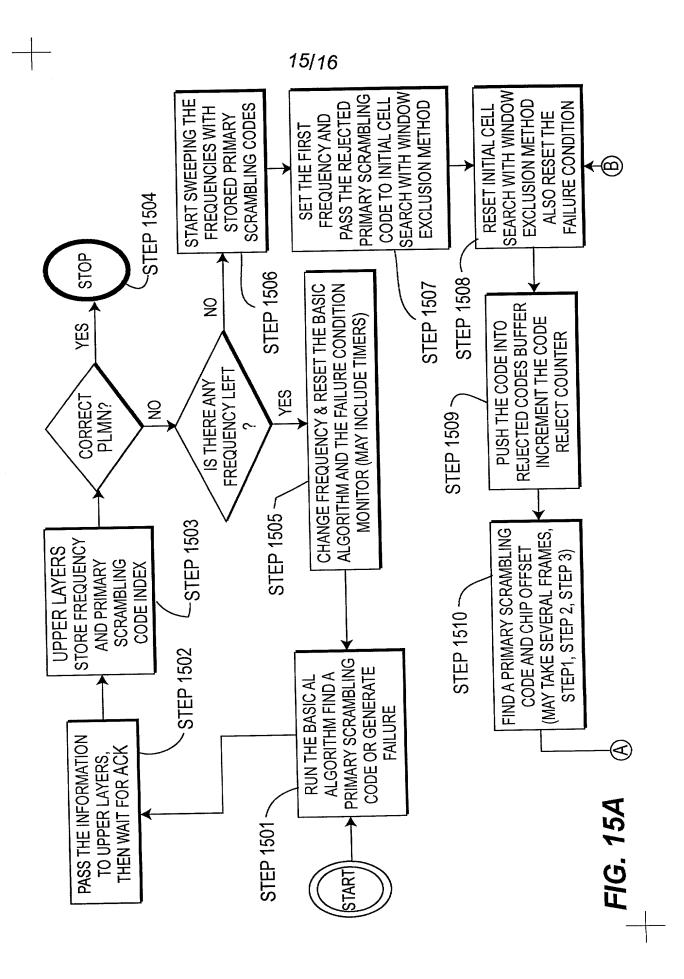


FIG. 14B



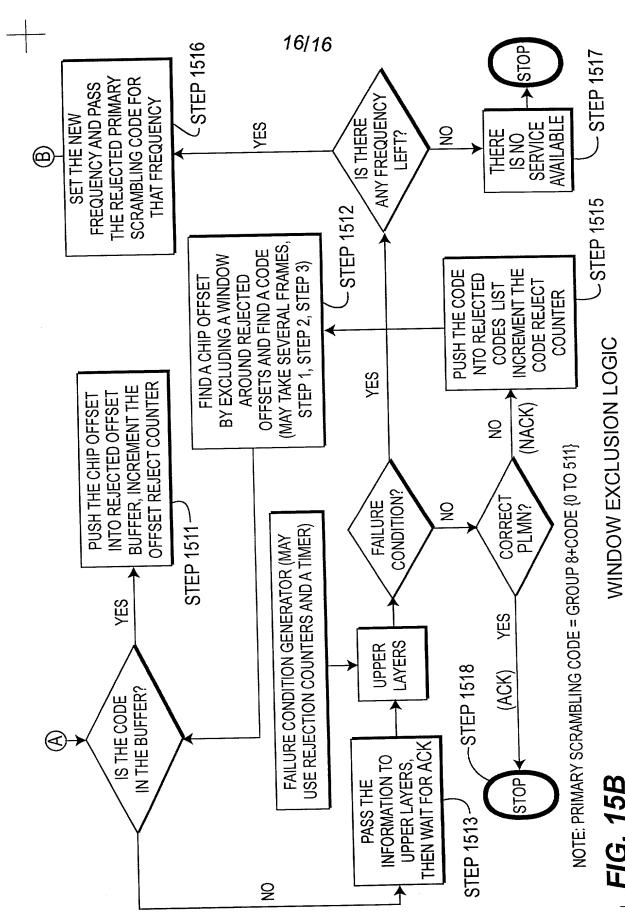


FIG. 15B